



PATENT ABSTRACTS OF JAPAN

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(54) SOLID ELECTROLYTE FUEL CELL

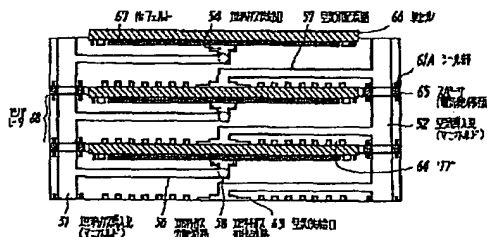
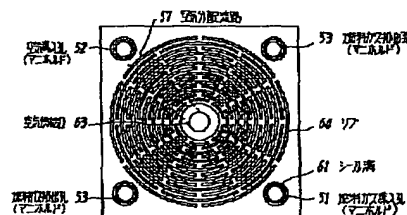
(57) Abstract:

PURPOSE: To prevent damage of a unit cell and cross leakage of reaction gas, and facilitate manufacture of the unit cell by forming the unit cell of a nonporous plate, and constituting so as to flow the reaction gas toward a peripheral part from the center of fuel cell reaction parts.

CONSTITUTION: A separator 68 of a metallic plate-like body is layered through a spacer 65 of an electric insulating plate sealed by a sealing groove 61 so that manifold parts coincide with each other, and a unit cell 66 is sandwiched between fuel cell reaction parts of the separator 68. Fuel gas is supplied to the unit cell 66 through a fuel gas introducing hole 51 and a fuel gas distributing passage 56 or the like, and reaches a fuel gas discharge port 53 of a peripheral part through a fuel gas discharge passage 58 after being diffused to a conductive porous body 67. Air is supplied to the unit cell 66 through an air introducing hole 52 and an air distributing passage 57 or the like, and flows in a groove passage of a rib 64, and is discharged outside of a fuel cell. In this constitution, since both reaction gases are separated from each other through the unit cell 66, cross leakage is not caused. Since the unit

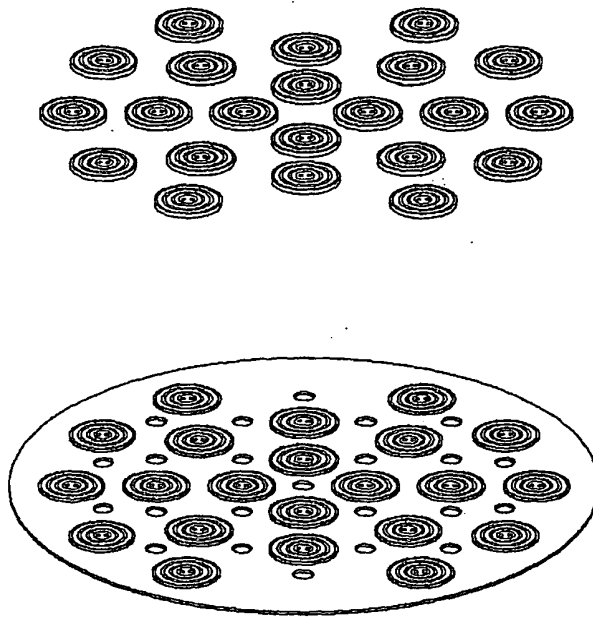
cell 66 is formed of a nonporous plate, boring work is unnecessary, and mechanical strength is increased.

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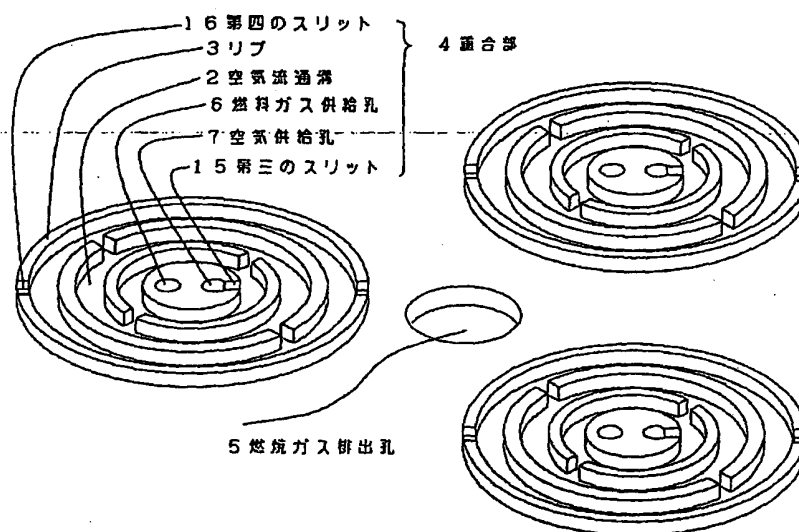




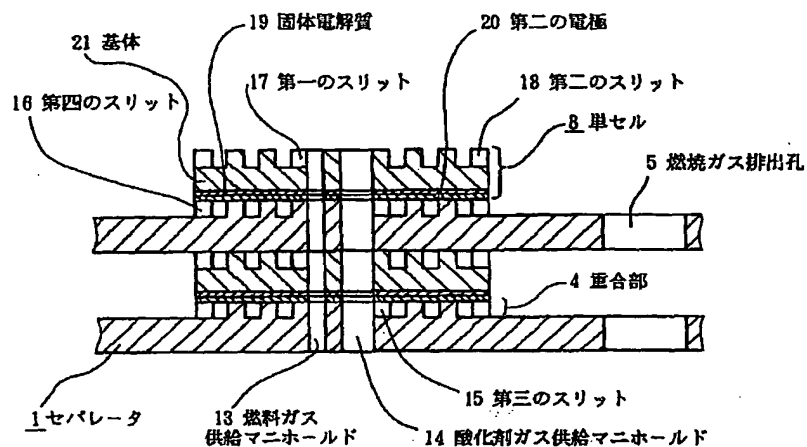
【図1】



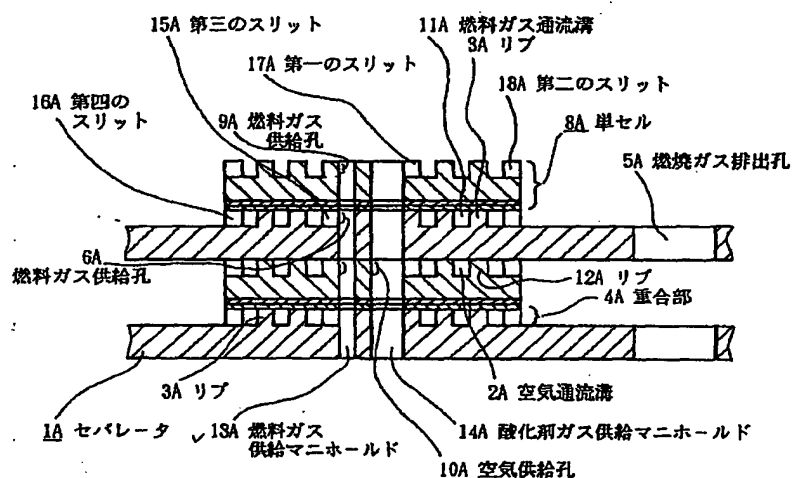
【図3】



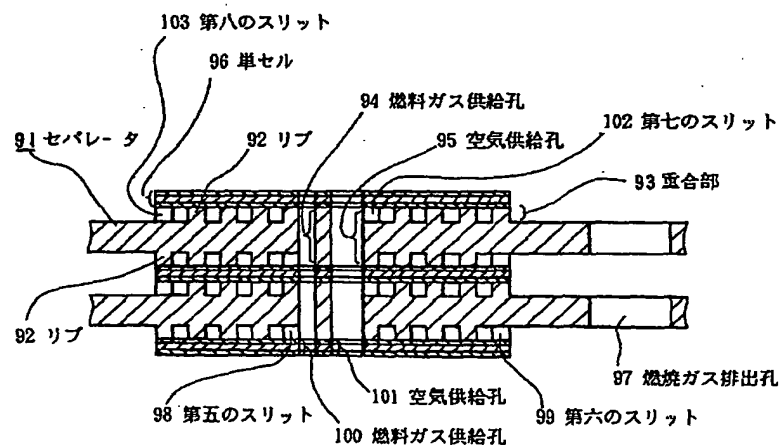
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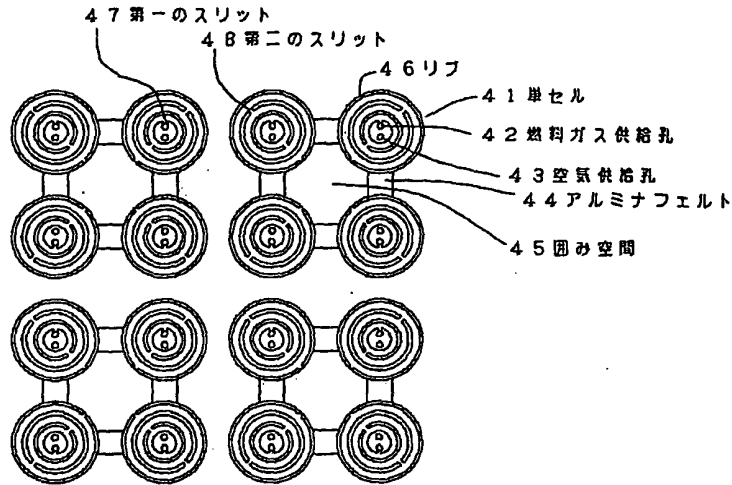
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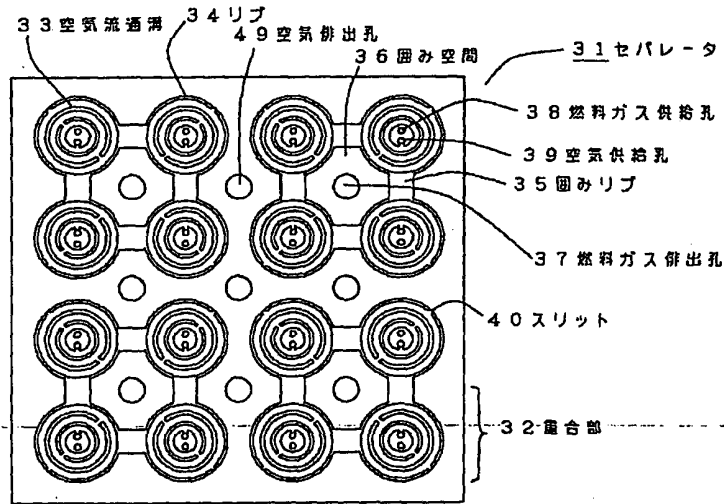
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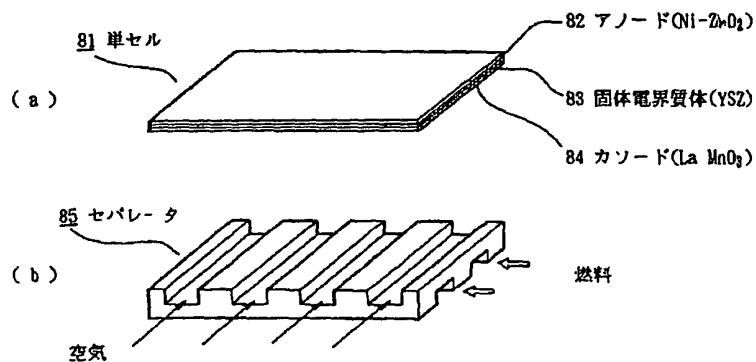
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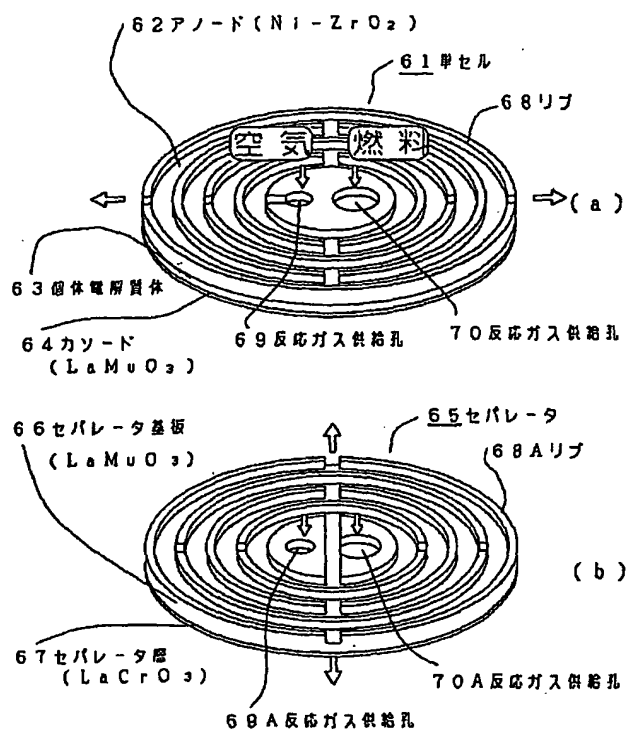
【図7】



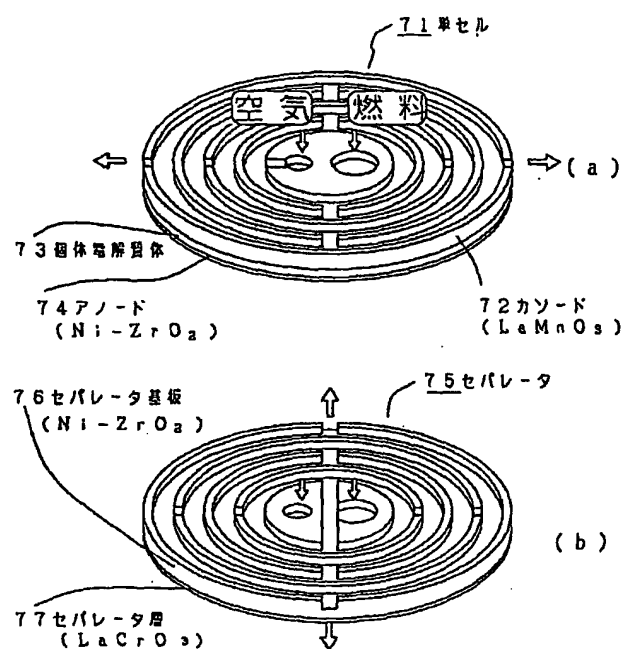
【図11】



【図9】



【図10】



【手続補正書】

【提出日】平成5年7月23日

【手続補正1】

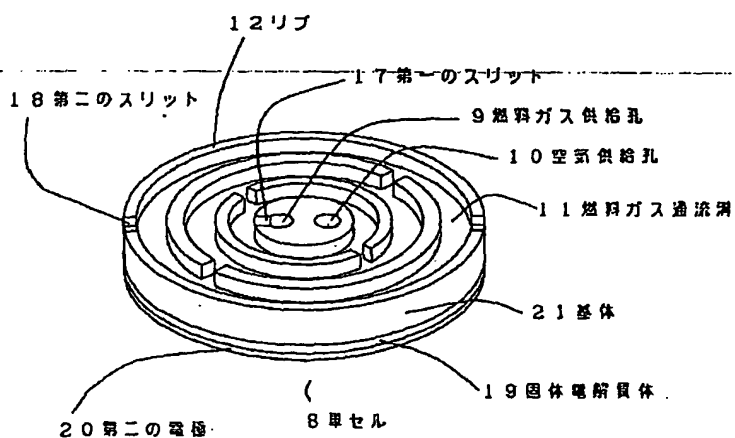
【補正対象書類名】図面

【補正対象項目名】図2

【補正方法】変更

【補正内容】

【図2】



【手続補正2】

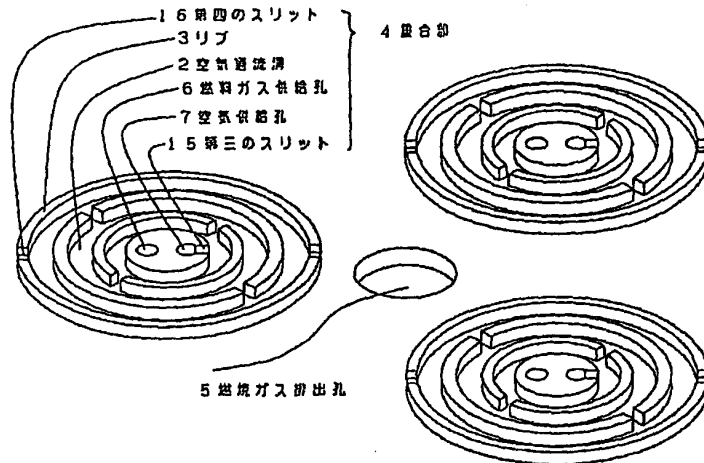
【補正対象書類名】図面

【補正対象項目名】図3

【補正方法】変更

【補正内容】

【図3】



【手続補正3】

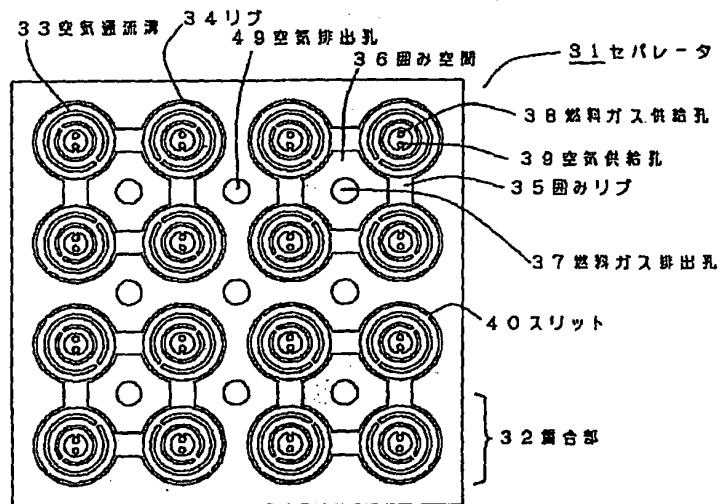
【補正対象書類名】図面

【補正対象項目名】図7

【補正方法】変更

【補正内容】

【図7】



【手続補正4】

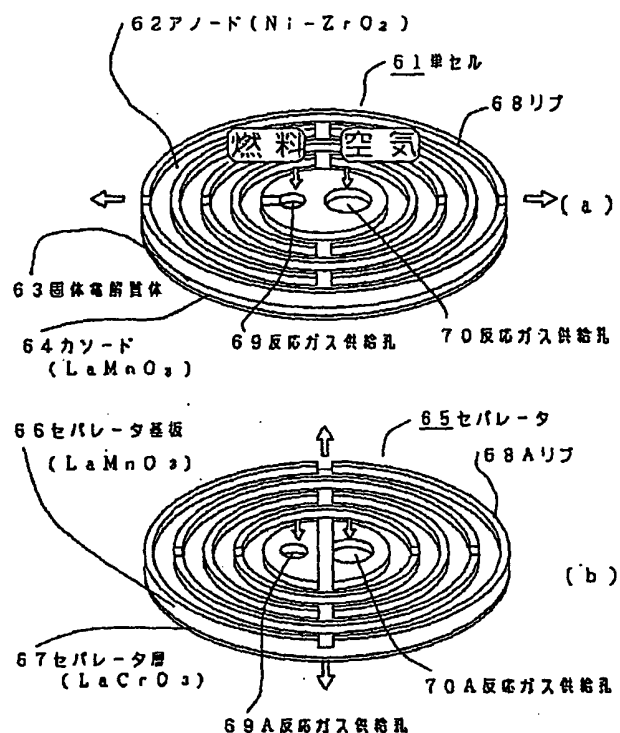
【補正対象書類名】図面

【補正対象項目名】図9

【補正方法】変更

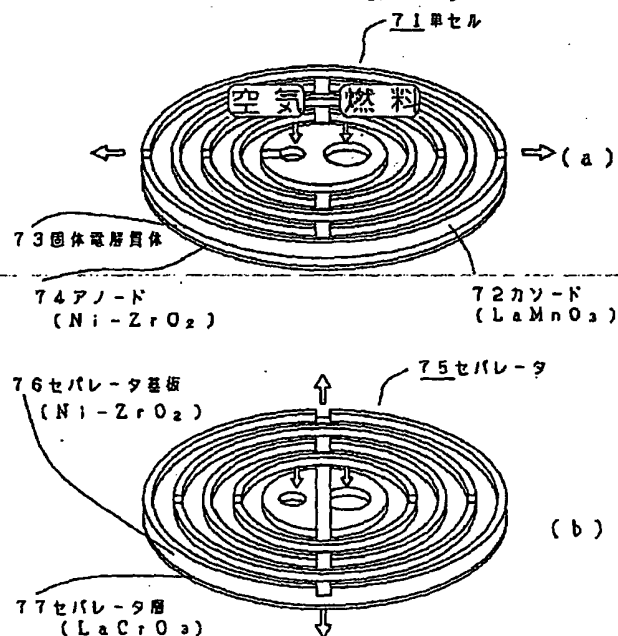
【補正内容】

【図9】



【手続補正5】
 【補正対象書類名】図面
 【補正対象項目名】図10

【補正方法】変更
 【補正内容】
 【図10】



【手続補正6】
 【補正対象書類名】図面
 【補正対象項目名】図11

【補正方法】変更
 【補正内容】
 【図11】

